

NEWS 17 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal status data from INPADOC

NEWS 18 SEP 01 INPADOC: New family current-awareness alert (SDI) available

NEWS 19 SEP 01 New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!

NEWS 20 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX

NEWS EXPRESS JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 06:27:58 ON 10 SEP 2004

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'STNGUIDE' ENTERED AT 06:28:24 ON 10 SEP 2004

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 AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Sep 3, 2004 (20040903/UP).

=> DIS SAVED

NAME	CREATED	NOTES/TITLE
ADIPIC/L	TEMP	8 L-NUMBERS
ALKYLATIN/L	13 DEC 2001	9 L-NUMBERS
CABAMATE/L	TEMP	12 L-NUMBERS
CHLOROFMTS/A	TEMP	18729 ANSWERS IN FILE CAPLUS
ESTERODOR/L	05 SEP 2002	42 L-NUMBERS
INDIUMCL3/A	30 MAY 2001	1 ANSWER IN FILE REGISTRY
LTWENTAUGFOR/A	04 AUG 2001	72 ANSWERS IN FILE CAPLUS
NEOTAMECRYST/A	24 APR 2001	59 ANSWERS IN FILE CAPLUS
NVLARMFULGEN/A	19 APR 2001	196 ANSWERS IN FILE REGISTRY
POHBENZALDEH/A	10 JUL 2001	5519 ANSWERS IN FILE CAPLUS
PROSTACMPD15/A	01 AUG 2001	34 ANSWERS IN FILE CAPLUS
STILLEAPP/L	07 JAN 2002	17 L-NUMBERS
TWOAMINOPOLY/Q	16 APR 2001	UPLOADED STRUCTURE

=> DIS SAVED/S
 NO SAVED SDI REQUESTS

=> ACT ADIPIC/L

L1 (1)SEA FILE=REGISTRY ABB=ON PLU=ON "ADIPIC ACID"/CN
L2 (1)SEA FILE=REGISTRY ABB=ON PLU=ON "ADIPIC ACID"/CN
L3 (12573)SEA FILE=CAPLUS ABB=ON PLU=ON L1
L4 (660820)SEA FILE=CAPLUS ABB=ON PLU=ON DRY?
L5 (98)SEA FILE=CAPLUS ABB=ON PLU=ON L3(L) L4
L6 (17)SEA FILE=CAPLUS ABB=ON PLU=ON ICLU?
L7 (1624110)SEA FILE=CAPLUS ABB=ON PLU=ON INCLU?
L8 (5)SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND L7

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	0.27

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FILE COVERS 1907 - 10 Sep 2004 VOL 141 ISS 11
FILE LAST UPDATED: 8 Sep 2004 (20040908/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> polycarboxylic

L9 11210 POLYCARBOXYLIC

=> 14(1)19

660859 DRY?
L10 612 L4(L) L9

=> stage

364996 STAGE
250354 STAGES
L11 551456 STAGE
(STAGE OR STAGES)

=> 110 and 111

L12 11 L10 AND L11

=> d 112 1-11 ti

L12 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI An improved process of fungicide/miticide sulphur formulation in the dry flowable form (w.g.)

L12 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI FT-IR determination of degree of esterification in polycarboxylic acid

cross-link finishing of cotton

L12 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Metallic base coating materials

L12 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Air-drying chlorinated PVC coatings

L12 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Alkyd resins

L12 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Water-soluble polyester binders

L12 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI The mechanism of coal oxidation in the solid and liquid phase. The
oxidation of coals with molecular oxygen

L12 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Vinyl chloride polymers and copolymers

L12 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Emulsifying agent

L12 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Ester-amides and ester-imides

L12 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
TI Polyhydric alcohol-polybasic acid condensates

=> l10(1)l11

L13 9 L10(L)L11

=> d l13 1-9 ti

L13 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
TI FT-IR determination of degree of esterification in polycarboxylic acid
cross-link finishing of cotton

L13 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
TI Metallic base coating materials

L13 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
TI Air-drying chlorinated PVC coatings

L13 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
TI Alkyd resins

L13 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
TI Water-soluble polyester binders

L13 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
TI The mechanism of coal oxidation in the solid and liquid phase. The
oxidation of coals with molecular oxygen

L13 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
TI Emulsifying agent

L13 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
TI Ester-amides and ester-imides

L13 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

TI Polyhydric alcohol-polybasic acid condensates

=> gas

1376419 GAS
473927 GASES
L14 1546395 GAS
(GAS OR GASES)

=> d his

(FILE 'HOME' ENTERED AT 06:27:58 ON 10 SEP 2004)

FILE 'STNGUIDE' ENTERED AT 06:28:24 ON 10 SEP 2004
ACT ADIPIC/L

L1 (1)SEA FILE=REGISTRY ABB=ON PLU=ON "ADIPIC ACID"/CN
L2 (1)SEA FILE=REGISTRY ABB=ON PLU=ON "ADIPIC ACID"/CN
L3 (12573)SEA FILE=CAPLUS ABB=ON PLU=ON L1
L4 (660820)SEA FILE=CAPLUS ABB=ON PLU=ON DRY?
L5 (98)SEA FILE=CAPLUS ABB=ON PLU=ON L3(L)L4
L6 (17)SEA FILE=CAPLUS ABB=ON PLU=ON ICLU?
L7 (1624110)SEA FILE=CAPLUS ABB=ON PLU=ON INCLU?
L8 (5)SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND L7

FILE 'CAPLUS' ENTERED AT 06:28:55 ON 10 SEP 2004

L9 11210 POLYCARBOXYLIC
L10 612 L4(L)L9
L11 551456 STAGE
L12 11 L10 AND L11
L13 9 L10(L)L11
L14 1546395 GAS

=> 14(1) 114

660859 DRY?
L15 60988 L4(L) L14

=> 115 and 13

SEARCH PROFILE NOT SUPPORTED FOR AUTOMATED SEARCH AND CROSSOVER
The search profile contains L-numbers or saved item names that include chemical substance terms, chemical structures, or structure screen sets. If you are in a single file environment using the CA file (CA, HCA, ZCA, CAPLUS, HCAPLUS, ZCAPLUS), enter HELP FIRST at an arrow prompt (=) for information about the REGISTRY automated search and crossover feature. REGISTRY supports the following search profiles:

Example 1:

=> ACT SCRSTR/Q
L3 STR
L4 SCR 2127
L5 QUE L3 NOT L4

These searches are supported:

S L5/REG
S SCRSTR/Q/REG
S (L3 NOT L4)/REG

These searches are not supported:

S L5
S SCRSTR/Q

Example 2:

```
=> ACT SCRSTR2/Q
L6          STR
L7          SCR 2127
L8          QUE L6
L9          QUE L7
L10         QUE L8 NOT L9
```

This search is supported:
S (L6 NOT L7)/REG

These searches are not supported:
S L10
S L10/REG
S SCRSTR2/Q
S SCRSTR2/Q/REG
S L8 NOT L9
S (L8 NOT L9)/REG

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	20.58	20.85

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 8 SEP 2004 HIGHEST RN 741635-85-8
DICTIONARY FILE UPDATES: 8 SEP 2004 HIGHEST RN 741635-85-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> e adipic acid/cn

```
E1      1      ADIPIC ACI-1,4-CYCLOHEXANEDICARBOXYLIC ACID-DESMODUR N 3300-
          HEXAHYDROPHTHALIC ANHYDRIDE-NEOPENTYL GLYCOL-ISOPHTHALIC ACI
          D-TRIMETHYLOLPROPANE COPOLYMER/CN
E2      1      ADIPIC ACI-ADIPIC ACID HEXAMETHYLENEDIAMINE SALT-ISOPHTHALIC
          ACID HEXAMETHYLENEDIAMINE SALT COPOLYMER/CN
E3      1  --> ADIPIC ACID/CN
E4      1      ADIPIC ACID (1,4-BUTANEDICARBOXYLIC ACID, HEXANEDIOIC ACID),
          BIS(2,3-DIHYDROXYPROPYL) ESTER, POLYMER/CN
E5      1      ADIPIC ACID 1,4-BUTANEDIAMINE SALT HOMOPOLYMER/CN
E6      1      ADIPIC ACID 1,4-BUTANEDIOL-BUTYL ACRYLATE-BUTYL METHACRYLATE
          -HYDROXYPROPYL METHACRYLATE-MALEIC ANHYDRIDE-METHACRYLIC ACI
          D-METHYL METHACRYLATE COPOLYMER/CN
E7      1      ADIPIC ACID 1,4-BUTANEDIOL-N,N'-DIMETHYLHYDRAZINE-ISOPROPYLI
          DENE DICYCLOHEXYL-4,4'-DIISOCYANATE/CN
E8      1      ADIPIC ACID 2,2-BIS(4-AMINOCYCLOHEXYL) PROPANE SALT/CN
E9      1      ADIPIC ACID 2,2-BIS(4-AMINOCYCLOHEXYL) PROPANE SALT POLYMER/C
```

N
 E10 1 ADIPIC ACID 2,2-BIS(4-AMINOCYCLOHEXYL)PROPANE SALT POLYMER,
 SRU/CN
 E11 1 ADIPIC ACID 2,5-DIMETHYLHEXAMETHYLENEDIAMINE SALT/CN
 E12 1 ADIPIC ACID 2-METHYLIMIDAZOLE SALT (1:1)/CN

=> e3

L16 1 "ADIPIC ACID"/CN

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.85	25.70

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FILE COVERS 1907 - 10 Sep 2004 VOL 141 ISS 11
 FILE LAST UPDATED: 8 Sep 2004 (20040908/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l16

L17 12575 L16

=> l15 d=and l16

MISSING OPERATOR L15 D=AND

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> l15 and l16

12575 L16

L18 45 L15 AND L16

=> d l18 35-45 ti

L18 ANSWER 35 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Dehydrogenation of glyoximes

L18 ANSWER 36 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Autoxidation of ethylcyclohexane

L18 ANSWER 37 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Dicarboxylic acids

L18 ANSWER 38 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Syntheses with dicarboxylic acids. XVIII. The cyclic and linear condensation of derivatives of adipic acid

L18 ANSWER 39 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Reactions at the carbonamide group. I

L18 ANSWER 40 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Synthetic curare compounds. VIa. Variations in the succinylcholine structure. VIb. Aliphatic derivatives having a polyquaternary ammonium function

L18 ANSWER 41 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Syntheses with dicarboxylic acids. II. Chlorination of adipic acid and some reactions of its mono- and di-chlorination products

L18 ANSWER 42 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Spray-drying soluble, fusible polymers of unsaturated esters

L18 ANSWER 43 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI The synthesis of octahydrocoumarins and their reaction with phosphorus pentoxide

L18 ANSWER 44 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Potassium fluoride as an analog of alkali in reactions of organic compounds. Decarboxylation and decarbonylation

L18 ANSWER 45 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI The fat from fatty acids with odd numbers of carbon atoms. III

=> d l18 37 ti fbib abs

L18 ANSWER 37 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Dicarboxylic acids
 AN 1956:89390 CAPLUS
 DN 50:89390
 OREF 50:16841c-f
 TI Dicarboxylic acids
 IN Kogler, Fritz
 PA Badische Anilin- & Soda-Fabrik Akt.-Ges.
 DT Patent
 LA Unavailable
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 848356		19520904	DE	
AB	Dicarboxylic acids (I) containing 5 C atoms and above are prepared by oxidizing saturated aliphatic hydrocarbons having 5 and more C atoms with HNO ₃ , possibly along with nitrous gases and O, so that the concentration of the HNO ₃ during the oxidation step is above 60%, preferably above 75%, and the reaction temperature is maintained below 100°, preferably below 70°. By this means undesired side reactions, such as nitration and (or) decomposition of the hydrocarbon chain, are prevented and I are obtained in good yield. A paraffinic hydrocarbon fraction, b. 240-60° (from the hydrogenation of CO), 100 added with rapid agitation to 100% HNO ₃ 6000 at a maximum temperature of 20°, the temperature gradually raised to 45°, stirring continued about 30 hrs., and the mixture then fractionated in vacuo (fractions with addition of water) gives as residue a crude I mixture 95 parts by weight which on recrystn. from hot water yields 24% crystalline product (based on the crude I mixture) essentially composed of sebacic, azelaic, and suberic acid (II), and a small amount of pimelic (III) and adipic acids (IV). The mother liquor evaporated to dryness and the residue recrystd. from 45% HNO ₃ gives a crystalline mass 19% by weight essentially composed of III and IV, and small amts. of II, succinic (V), and oxalic				

acids (VI). The residue 55% by weight obtained by evaporating the resulting mother liquor (with addition of water) is composed (up to 70%) of III, glutaric acid, V, IV, and VI, and the balance of HO and O₂N dicarboxylic acids.

=> d 118 24-34 ti

- L18 ANSWER 24 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Effect of deliquescent salt additives on the reaction of sulfur dioxide with dry calcium hydroxide
- L18 ANSWER 25 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Carbonic acid fertilization of aquatic plants
- L18 ANSWER 26 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Dual purpose magnetic toner
- L18 ANSWER 27 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Gas-liquid chromatographic determination of adipic acid in crackling candy and soft drinks
- L18 ANSWER 28 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Compilation of air pollutant emission factors. Supplement number 7
- L18 ANSWER 29 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Separation of cyclohexane
- L18 ANSWER 30 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Oxygen-containing organic compounds
- L18 ANSWER 31 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Simultaneous production of adipic acid and cyclohexanone oxime
- L18 ANSWER 32 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Catalytic carbonylation of organic compounds with carbon monoxide
- L18 ANSWER 33 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Utilization of furfural as initial substance in the plastic industry
- L18 ANSWER 34 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Derivatives of pimelic and adipic acid and their antitubercular activity

=> d 118 13-23 ti

- L18 ANSWER 13 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Gas chromatographic determination of free adipic acid in adipyl-crosslinked starches
- L18 ANSWER 14 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Method of reagent and oxidation air delivery
- L18 ANSWER 15 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Deodorants and their preparation
- L18 ANSWER 16 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI New rotoclone design for removal of adipic acid dust from air
- L18 ANSWER 17 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Process and products in the surface modification of minerals in a reactive atmosphere

L18 ANSWER 18 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Organic acids in Southern California air: ambient concentrations, mobile source emissions, in situ formation and removal processes

L18 ANSWER 19 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Stabilization of tetrasodium EDTA-iron(II) complexes in **dry** form for wet scrubbing of sulfur dioxide and nitrogen oxides from flue gases

L18 ANSWER 20 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Flue gas desulfurization

L18 ANSWER 21 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Effect of deliquescent salt additives on the reaction of sulfur dioxide with calcium hydroxide

L18 ANSWER 22 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Flue gas desulfurization

L18 ANSWER 23 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Desulfurization of flue gas from multiple boilers

=> d 118 1-12 ti

L18 ANSWER 1 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Compression-molded water-soluble solids showing no cracking

L18 ANSWER 2 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Water-soluble organic compounds in biomass burning aerosols over Amazonia
 1. Characterization by NMR and GC-MS

L18 ANSWER 3 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Autotoxicity of root exudates from taro

L18 ANSWER 4 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Device for producing an aqueous chlorine dioxide solution

L18 ANSWER 5 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Use, method and composition of organic acids in gypsum producing desulphurising plants

L18 ANSWER 6 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Efficiency improvement of flue gas cleaning plants. Use of adipic acid in lignite-fired power plant Frimmersdorf of RWE Energie AG

L18 ANSWER 7 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Preserving crops during storage, shipping, and processing with chlorine dioxide-generating compounds

L18 ANSWER 8 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Membrane-forming colloids for the treatment of wound

L18 ANSWER 9 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Dissolvable air freshener comprising fragrance and acids

L18 ANSWER 10 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Process for making a low bulk density detergent composition by agglomeration

L18 ANSWER 11 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Crystalline polyolefin compositions, manufacture of the compositions, and films made of the compositions

L18 ANSWER 12 OF 45 CAPLUS COPYRIGHT 2004 ACS on STN
TI Detergent compositions and manufacture thereof and home machine laundering and dishwashing using the same

=> d his

(FILE 'HOME' ENTERED AT 06:27:58 ON 10 SEP 2004)

FILE 'STNGUIDE' ENTERED AT 06:28:24 ON 10 SEP 2004
ACT ADIPIC/L

L1 (1)SEA FILE=REGISTRY ABB=ON PLU=ON "ADIPIC ACID"/CN
L2 (1)SEA FILE=REGISTRY ABB=ON PLU=ON "ADIPIC ACID"/CN
L3 (12573)SEA FILE=CAPLUS ABB=ON PLU=ON L1
L4 (660820)SEA FILE=CAPLUS ABB=ON PLU=ON DRY?
L5 (98)SEA FILE=CAPLUS ABB=ON PLU=ON L3(L) L4
L6 (17)SEA FILE=CAPLUS ABB=ON PLU=ON ICLU?
L7 (1624110)SEA FILE=CAPLUS ABB=ON PLU=ON INCLU?
L8 (5)SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND L7

FILE 'CAPLUS' ENTERED AT 06:28:55 ON 10 SEP 2004
L9 11210 POLYCARBOXYLIC
L10 612 L4(L) L9
L11 551456 STAGE
L12 11 L10 AND L11
L13 9 L10(L) L11
L14 1546395 GAS
L15 60988 L4(L) L14

FILE 'REGISTRY' ENTERED AT 06:35:54 ON 10 SEP 2004
E ADIPIC ACID/CN
L16 1 E3

FILE 'CAPLUS' ENTERED AT 06:36:24 ON 10 SEP 2004
L17 12575 L16
L18 45 L15 AND L16

=> 19 and 115

L19 33 L9 AND L15

=> 119 not 118

L20 32 L19 NOT L18

=> d 120 22-32 ti

L20 ANSWER 22 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Hydrocarbon-maleic anhydride resins for coatings and inks

L20 ANSWER 23 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI The mechanism of coal oxidation in the solid and liquid phase. The oxidation of coals with molecular oxygen

L20 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Processing potassium salts of benzenecarboxylic and benzenepolycarboxylic acids

L20 ANSWER 25 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Cyanamide catalyst for ammonium nitrate gas-generating compositions

L20 ANSWER 26 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN

TI Alkyd resins for coating compositions

L20 ANSWER 27 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Curing polyepoxide resins with acid anhydrides and boron fluoride complexes

L20 ANSWER 28 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Purification of cyclic **polycarboxylic** acids from nitric acid oxidation of coal

L20 ANSWER 29 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Powdered polymers from the esters of **polycarboxylic** acids with allyl alcohol

L20 ANSWER 30 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI **Polycarboxylic** acids from coke

L20 ANSWER 31 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Polyhydric alcohol mixed esters

L20 ANSWER 32 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Catalytic oxidation of fatty materials

=> d 120 28-30 ti fbib abs

L20 ANSWER 28 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Purification of cyclic **polycarboxylic** acids from nitric acid oxidation of coal
 AN 1958:68920 CAPLUS
 DN 52:68920
 OREF 52:12374h-i,12375a
 TI Purification of cyclic **polycarboxylic** acids from nitric acid oxidation of coal
 IN Ewers, Josef; Grosskinsky, Otto; Thurauf, Walter
 PA Bergwerksverband zur Verwertung von Schutzrechten der Kohlentechnik G. m. b. H.
 SO Addn. to Ger. 864,992
 DT Patent
 LA Unavailable
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 892895		19531012	DE	
AB	<p>Monocyclic aromatic carboxylic acids are prepared according to the main patent by high-temperature (130-50°) oxidation at 6-7 atmospheric (after preoxidation with oxidizing gases if desired) of coals, coal distillation products, or coal tars with HNO3 (sp. gr. 1.2) which is then distilled off. The acids are freed from dark impurities by stirring with water and the aqueous solution (treated with adsorbents or bleaches if desired) is evaporated to dryness. The residue is then extracted with organic solvents, e.g., Me2CO, EtCOMe, or dioxane, to free the acids from water-soluble inorg. impurities. Sometimes, direct extraction of the reaction-mixture residue with ketone-CHCl3 or ketone-CCl4 mixts. suffices. Preparation and fractional distillation of esters, e.g., Bu esters, of the acids give a high degree of purity.</p>				

L20 ANSWER 29 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Powdered polymers from the esters of **polycarboxylic** acids with allyl alcohol
 AN 1954:48557 CAPLUS

DN 48:48557
 OREF 48:8590i,8591a-c
 TI Powdered polymers from the esters of **polycarboxylic** acids with allyl alcohol
 PA .N. V. de Bataafsche Petroleum Maatschappij
 DT Patent
 LA Unavailable
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL 73754		19531215	NL	
AB	A mixture (I) containing the monomer and at least 95% by weight of fusible and soluble polymers prepared from the esters of polycarboxylic acids with allyl alc., which can be substituted, is dissolved in such an amount of a volatile solvent and then sprayed into a heated gas at such a temperature that the solvent is evaporated and a powdered polymer is obtained.				
A	<p>polymerization catalyst, e.g. a peroxide, is added before the spraying process. It is advantageous to use such an amount of the solvent, preferably acetone, that the solution contains not less than 40%, preferably between 70% and 90%, by weight of I. Dyes, stabilizers, and plasticizers can be added to this solution. The temperature of the heated gas can vary between 50° and 240°, preferably between 75° and 100°. In the manufacture of laminated articles it is advantageous to spray monomeric unsatd. esters or liquid polymers on the sheet material, coat the wet sheets with the powder, assemble the sheets, and cure the laminate, when the powder is dissolved in the liquid phase. In an example, a monomeric diallyl phthalate is heated with tert-Bu hydroperoxide until the polymer content is about 27% by weight. After extraction with MeOH, a mixture containing 95% polymer and 5% monomer is obtained which is dissolved in acetone to produce a 30% by weight solution. After the addition of 2% by weight of tert-Bu perbenzoate the solution is sprayed into dry air at 80°.</p>				

L20 ANSWER 30 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN

TI **Polycarboxylic** acids from coke
 AN 1954:3757 CAPLUS
 DN 48:3757
 OREF 48:727d-f
 TI **Polycarboxylic** acids from coke
 PA Directie van de Staatsmijnen in Limburg
 DT Patent
 LA Unavailable
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL 71078		19521015	NL	
AB	In the manufacture of 1,2,4,5-C ₆ H ₂ (CO ₂ -)4 (I) (Dutch 69,376, C.A. 46, 8354g) comprising the oxidation of coke with HNO ₃ (reaction II), the deposition of the polycarboxylic acids thus obtained on or in coke breeze, preferably by impregnation, and the treatment of the coated or impregnated material with H ₂ O vapor in the fluidized state, a reaction residue is obtained which is a suitable starting material for reaction II. E.g. a powdered product prepared by mixing coke breeze 850 g. (particle size 0.1-1.5 mm.) with a warm soln. 1 l. containing about 100 g. mellitic acid and obtained by treating coke with HNO ₃ and drying the impregnated product, is treated in the fluidized state at 280-90° with preheated steam. I (63 g.) and a powdered residue, suitable as starting material for the reaction II, are recovered from the gas stream.				

=> d 120 11-21 ti

L20 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Moisture-resistant polymer composite films with good gas-barrier property

L20 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Moisture-resistant polymer gas-barrier composite films

L20 ANSWER 13 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Water-resistant composite coated film

L20 ANSWER 14 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Water-resistant composite coated films and their manufacture

L20 ANSWER 15 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Dyeing by synthesis of pigments on fiber

L20 ANSWER 16 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Activated carbon, particularly for water purification

L20 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Glass fiber strands for rubber reinforcement

L20 ANSWER 18 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Water-based alkyd-resin coating compositions

L20 ANSWER 19 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Polyester lubricant additives

L20 ANSWER 20 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Aminoplast-containing condensation products for varnishes and lacquers

L20 ANSWER 21 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Improvement in esterification processes

=> d 120 21 ti fbib abs

L20 ANSWER 21 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Improvement in esterification processes
AN 1966:35643 CAPLUS
DN 64:35643
OREF 64:6569f-h,6570a
TI Improvement in esterification processes
PA Imperial Chemical Industries Ltd.
SO 8 pp.
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	BE 636545		19640224	BE	
				GB	19620804
	FR 1367292			FR	
	GB 990927			GB	

AB The substitution of stannous salts of saturated, aliphatic or aromatic, monodi- or **polycarboxylic** acids (having a maximum of 12 C) as catalysts in place of sulfuric acid reduces the incidence of secondary reactions and the appearance of unwanted degradation products in the esterification process. Furthermore, the reaction can proceed at a higher temperature and reach equilibrium

in a shorter time. The amount of catalyst varies but is never more than 5% by weight of the acid or anhydride esterified; frequently it is 3.5%, and there have been cases when 0.1% was sufficient. The preferred catalyst is from an acid containing 7 carbons, although acetates, benzoates, citrate, oxalate, etc. would be satisfactory. The alc. can be saturated or unsatd., mono-, di-, or polyhydroxy but the monohydroxy is most satisfactory. The reaction proceeds in the presence or absence of air, and is very satisfactory in an inert **gas** atmospheric. Thus, a mixture of 2 mol of phthalic anhydride, 2.6 mol of isooctanol, and 5.92 g. of stannous acetate (2% by weight based on phthalic anhydride) is agitated and heated in an atmospheric of N₂; refluxed for 40 min. during which time the temperature rose to 238°, and the water formed in the reaction was sent off in continuous fashion by means of a Dean & Stark condenser. 99.7% of the monoester formed was converted into diester, diisooctanoate phthalate. The products were separated by alc. exchange and vaporization, filtration and **drying** over anhydrous sodium sulfate.

=> d 120 1-10 ti

- L20 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Polymer analysis method and manufacture of **polycarboxylic** acids bearing polyalkylene glycol groups using the method
- L20 ANSWER 2 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Ceria-based mixed-metal oxide and its use in catalysts
- L20 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Water-soluble organic compounds in biomass burning aerosols over Amazonia
 2. Apportionment of the chemical composition and importance of the polyacidic fraction
- L20 ANSWER 4 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Manufacture of **polycarboxylic** acid-type powdered cement dispersants
- L20 ANSWER 5 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Low shrinkage, high strength cellular lightweight concrete
- L20 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Activated carbon and its production
- L20 ANSWER 7 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Poly(hydroxyalkanoate) biosynthesis from triglyceride substrates
- L20 ANSWER 8 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Laminated films and bags made of the films for packaging electronic device parts
- L20 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Laminated films and bags made of the films for packaging electronic device parts
- L20 ANSWER 10 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Mathematical modeling of atmospheric fine particle-associated primary organic compound concentrations

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
43.22	68.92

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.50	-3.50

SESSION WILL BE HELD FOR 60 MINUTES
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PASSWORD:

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FILE 'CAPLUS' ENTERED AT 07:15:26 ON 10 SEP 2004
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	43.22	68.92

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.50	-3.50

=> dewatering
17876 DEWATERING
2 DEWATERINGS
L21 17877 DEWATERING
(DEWATERING OR DEWATERINGS)

=> d his

(FILE 'HOME' ENTERED AT 06:27:58 ON 10 SEP 2004)

FILE 'STNGUIDE' ENTERED AT 06:28:24 ON 10 SEP 2004
ACT ADIPIC/L

```

L1 (      1)SEA FILE=REGISTRY ABB=ON  PLU=ON  "ADIPIC ACID"/CN
L2 (      1)SEA FILE=REGISTRY ABB=ON  PLU=ON  "ADIPIC ACID"/CN
L3 (    12573)SEA FILE=CAPLUS ABB=ON  PLU=ON  L1
L4 (    660820)SEA FILE=CAPLUS ABB=ON  PLU=ON  DRY?
L5 (      98)SEA FILE=CAPLUS ABB=ON  PLU=ON  L3(L) L4
L6 (      17)SEA FILE=CAPLUS ABB=ON  PLU=ON  ICLU?
L7 (   1624110)SEA FILE=CAPLUS ABB=ON  PLU=ON  INCLU?
L8 (      5)SEA FILE=CAPLUS ABB=ON  PLU=ON  L5 AND L7

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FILE 'CAPLUS' ENTERED AT 06:28:55 ON 10 SEP 2004

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L9      11210 POLYCARBOXYLIC
L10     612 L4(L) L9
L11    551456 STAGE
L12     11 L10 AND L11
L13     9 L10(L) L11
L14    1546395 GAS
L15    60988 L4(L) L14

```

FILE 'REGISTRY' ENTERED AT 06:35:54 ON 10 SEP 2004

E ADIPIC ACID/CN

L16 1 E3

FILE 'CAPLUS' ENTERED AT 06:36:24 ON 10 SEP 2004

L17 12575 L16
L18 45 L15 AND L16
L19 33 L9 AND L15
L20 32 L19 NOT L18
L21 17877 DEWATERING

=> 117(1)121

L22 5 L17(L)121

=> d 122 1-5 ti

L22 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

TI Centrifugal dewatering of hazardous suspensions in the laboratory

L22 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

TI Basic condensation product manufacture and its use as a retention and dewatering agent in paper manufacture and flocculation agents in paper process water treatment

L22 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

TI Basic polymers as retention aids in papermaking

L22 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

TI Oil spill cleaning agent

L22 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

TI Amide group-containing polyamines

=>

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	58.47	84.17

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.50	-3.50

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 07:31:46 ON 10 SEP 2004

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

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NEWS 2 "Ask CAS" for self-help around the clock
 NEWS 3 SEP 01 New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
 NEWS 4 OCT 28 KOREAPAT now available on STN
 NEWS 5 NOV 30 PHAR reloaded with additional data
 NEWS 6 DEC 01 LISA now available on STN
 NEWS 7 DEC 09 12 databases to be removed from STN on December 31, 2004
 NEWS 8 DEC 15 MEDLINE update schedule for December 2004
 NEWS 9 DEC 17 ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
 NEWS 10 DEC 17 COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
 NEWS 11 DEC 17 SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
 NEWS 12 DEC 17 CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
 NEWS 13 DEC 17 THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
 NEWS 14 DEC 30 EPFULL: New patent full text database to be available on STN
 NEWS 15 DEC 30 CAPLUS - PATENT COVERAGE EXPANDED
 NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and February 2005
 NEWS 17 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
 NEWS 18 FEB 10 STN Patent Forums to be held in March 2005
 NEWS 19 FEB 16 STN User Update to be held in conjunction with the 229th ACS National Meeting on March 13, 2005
 NEWS 20 FEB 28 PATDPAFULL - New display fields provide for legal status data from INPADOC
 NEWS 21 FEB 28 BABS - Current-awareness alerts (SDIs) available
 NEWS 22 FEB 28 MEDLINE/LMEDLINE reloaded
 NEWS 23 MAR 02 GBFULL: New full-text patent database on STN
 NEWS 24 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
 NEWS 25 MAR 03 MEDLINE file segment of TOXCENTER reloaded

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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FILE 'HOME' ENTERED AT 06:15:51 ON 14 MAR 2005

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 06:16:03 ON 14 MAR 2005

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FILE COVERS 1907 - 14 Mar 2005 VOL 142 ISS 12
FILE LAST UPDATED: 13 Mar 2005 (20050313/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> adipic
L1 36214 ADIPIC

=> dry?
L2 680313 DRY?

=> l1 and l2
L3 2504 L1 AND L2

=> fines
L4 14861 FINES

=> l3 and l4
L5 1 L3 AND L4

=> d l5 ti fbib abs

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
TI Method of enhancing strength of paper products and the resulting products
AN 1998:197662 CAPLUS
DN 128:231782
TI Method of enhancing strength of paper products and the resulting products
IN Park, David W.; Hunter, Frank R.
PA Weyerhaeuser Company, USA
SO PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9812384	A1	19980326	WO 1997-US16728	19970918
	W: BR, CA, CN, JP, KR, NO				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5830320	A	19981103	US 1996-718103	A 19960918
	CA 2266491	AA	19980326	US 1996-718103	19960918
				CA 1997-2266491	19970918
				US 1996-718103	A 19960918
				WO 1997-US16728	W 19970918
	EP 927280	A1	19990707	EP 1997-941713	19970918
	EP 927280	B1	20020116		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

			US 1996-718103	A	19960918
			WO 1997-US16728	W	19970918
CN 1231010	A	19991006	CN 1997-198021		19970918
			US 1996-718103	A	19960918
JP 2001500930	T2	20010123	JP 1998-514927		19970918
			US 1996-718103	A	19960918
			WO 1997-US16728	W	19970918
AT 212090	E	20020215	AT 1997-941713		19970918
			US 1996-718103	A	19960918
			WO 1997-US16728	W	19970918
ES 2171998	T3	20020916	ES 1997-941713		19970918
			US 1996-718103	A	19960918
KR 2000036236	A	20000626	KR 1999-702318		19990318
			US 1996-718103	A	19960918

AB The invention is a method of enhancing the strength of paper products, particularly the **dry** strength, without adversely affecting repulpability. It is also directed to the resulting products. It is particularly applicable but not limited to products with significant amts. of secondary fiber in the furnish. Preferably, about 10-30% of the fiber is separated from the furnish at some point prior to sheeting. This is treated with a cationic wet strength resin which is allowed to bond to the fiber. Cationic polyamide-epichlorohydrin resins are particularly useful. The treated fiber is then mixed with the untreated balance of the fiber at some point before the paper machine. Screening **fines** on repulping do not normally exceed 2-3%.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> polycarboxylic

L6 11514 POLYCARBOXYLIC

=> 16(1)12

L7 629 L6(L)L2

=> 14 and 17

L8 4 L4 AND L7

=> d 18 1-4 ti

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

TI Manufacture of dry flowable herbicide formulation containing tribenuron-methyl

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

TI An improved process of fungicide/miticide sulphur formulation in the dry flowable form (w.g.)

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

TI Titanium dioxide slurry for pigment

L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

TI Polymer compositions for the manufacture of paper

=> carboxylic

225341 CARBOXYLIC

46 CARBOXYLICS

L9 225359 CARBOXYLIC

(CARBOXYLIC OR CARBOXYLICS)

=> 19(1)12

L10 7198 L9(L)L2

=> 14 and 110

L11 7 L4 AND L10

=> 111 not 18

L12 5 L11 NOT L8

=> d 112 1-5 ti

L12 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

TI Method for making homogeneous spray-dried solid amorphous drug dispersions using pressure nozzles

L12 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

TI The performance of functional chemicals in ECF and TCF bleached papermaking furnishes

L12 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

TI The performance of functional chemicals in ECF and TCF bleached hard- and softwood pulps

L12 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

TI Unshaped refractory materials with improved explosion resistance during drying and firing

L12 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

TI Malic acid purification by hydrogenation

=> d 112 5 ti fbib abs

L12 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

TI Malic acid purification by hydrogenation

AN 1969:449299 CAPLUS

DN 71:49299

TI Malic acid purification by hydrogenation

IN Nesty, Glenn A.

PA Allied Chemical Corp.

SO Fr., 5 pp.

CODEN: FRXXAK

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	FR 1531992		19680705		
				US	19660721
	DE 1692583			DE	
	US 3523024		19700000	US	

AB Malic acid (I), useful in animal nutrition containing, 0.5-3% succinic acid (II) and not >0.03% unsatd. **carboxylic** acids, was obtained by hydration of maleic (III) and (or) fumaric acid (IV), to yield an aqueous solution of I, which was worked up. Thus, heating a 50% aqueous III solution at

200°/10.7-11 kg./cm.2 3 hrs. gave a mixture of I 3130, III 70, IV 2525, and H2O 4675 parts, cooling to 130°, evaporating at 45-50° to sep. 1475 parts H2O, filtering and hydrogenating the resulting mixture comprising I 2500, III 55, IV 25, and H2O 2600 parts at 50°/7 kg./cm.2 in a 7 stage tower while simultaneously adding an aqueous suspension of 5% Pd/C and bubbling H at a rate of 10.2 m.3/hr., filtering, and treating with active C gave a solution containing I 2425, II 75, and H2O 2500

parts, which was dried. The **dry** matter was classified to sep. 500 parts **finer** which dissolved in an equal weight H₂O were added to the solution from the next run in the course of **drying**. The **dry** matter free of **finer** was I containing 3% II and may be dissolved at a ratio of 40 g. in 100 ml. H₂O.

=> 11(1)12

L13 1717 L1(L)L2

=> 14 and 113

L14 0 L4 AND L13

=> two stage

1980695 TWO

30 TWOS

1980719 TWO

(TWO OR TWOS)

376663 STAGE

256565 STAGES

567630 STAGE

(STAGE OR STAGES)

L15 27771 TWO STAGE

(TWO(W) STAGE)

=> 12(1)115

L16 838 L2(L)L15

=> 19 and 116

L17 11 L9 AND L16

=> d 117 1-11 ti

L17 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI Polymer latexes and their coating compositions for paper with good pick resistance

L17 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI Occurrence of iron-reducing compounds in biodelignified "palo podrido" wood samples

L17 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI Development of a simple high-efficient anaerobic digestion process for the treatment of wastes

L17 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI Identification of 4-hydroxyvaleric acid as a constituent of biosynthetic polyhydroxyalkanoic acids from bacteria

L17 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI Biodegradable or biocompatible polyester copolymer manufactured with Alcaligenes

L17 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI Manufacture of β -hydroxy acid copolymers with Methylobacterium

L17 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI Apparatus and methods for treating low-quality coal

L17 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI Organic acids in vegetables and their importance for metabolism during growth, ripening and storage. I. Peas